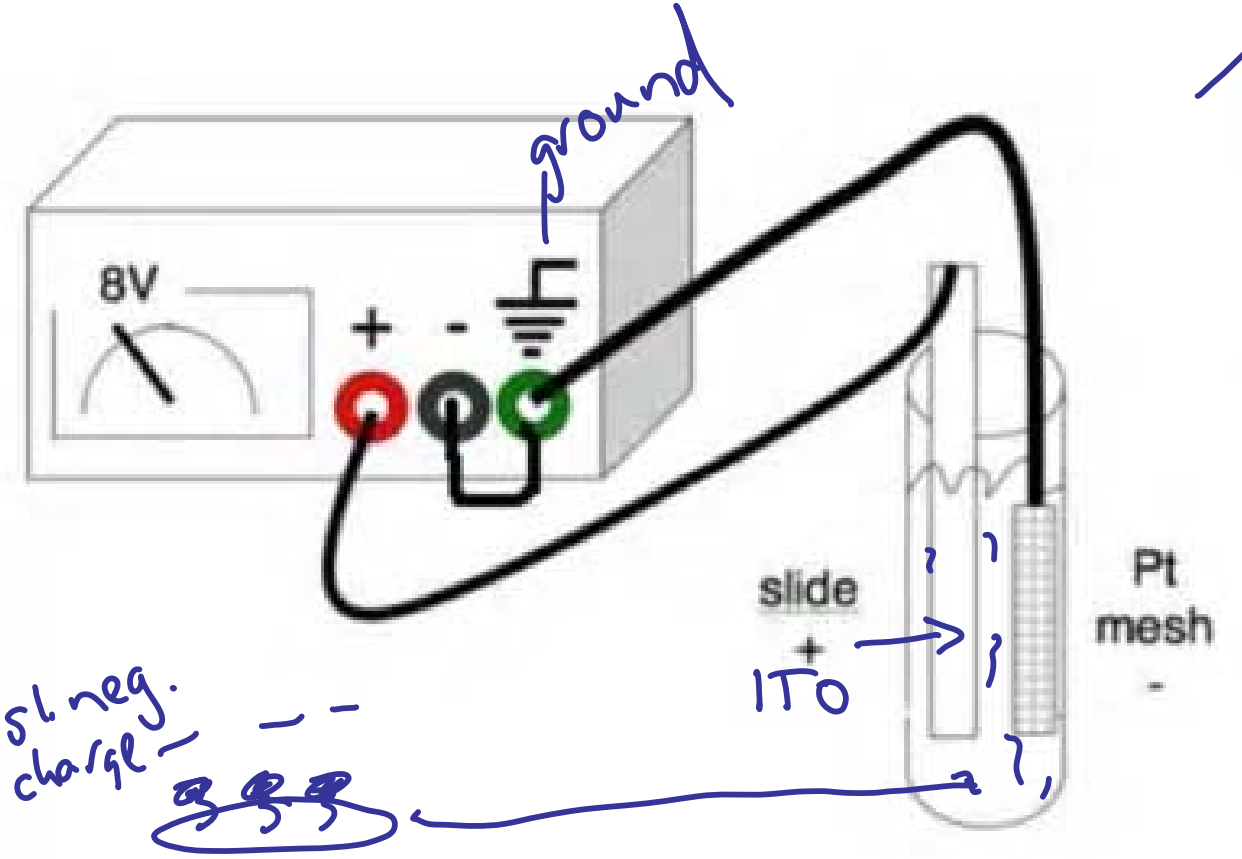
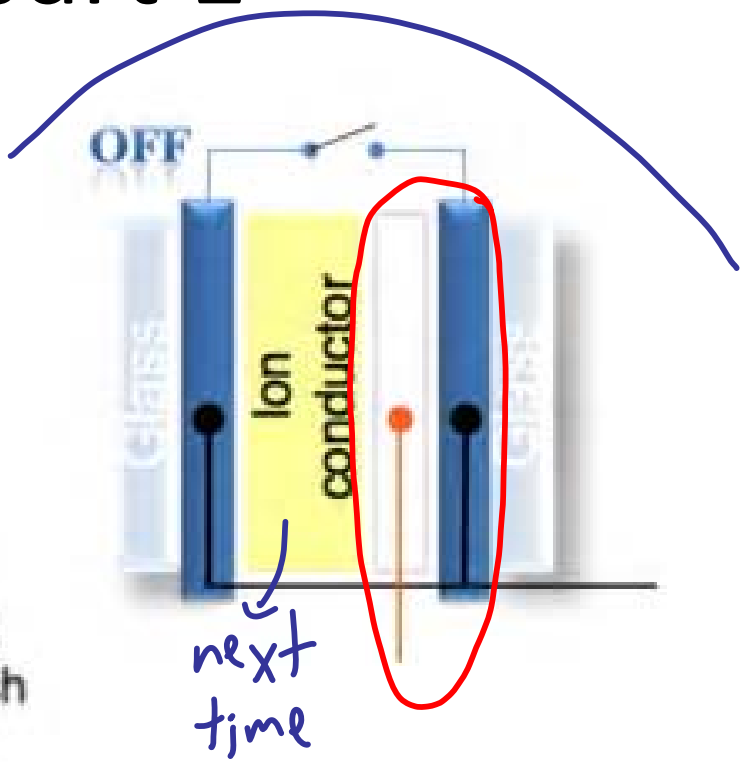
- Announcements
  - No lab next week
  - OH: NK by appt. ANS by appt.
- Lab Quiz
- Pre-lab Lecture
  - ECD Preparation
  - Intro to TEM
  - Today in Lab

electro deposition

Preparing ECD, part 1



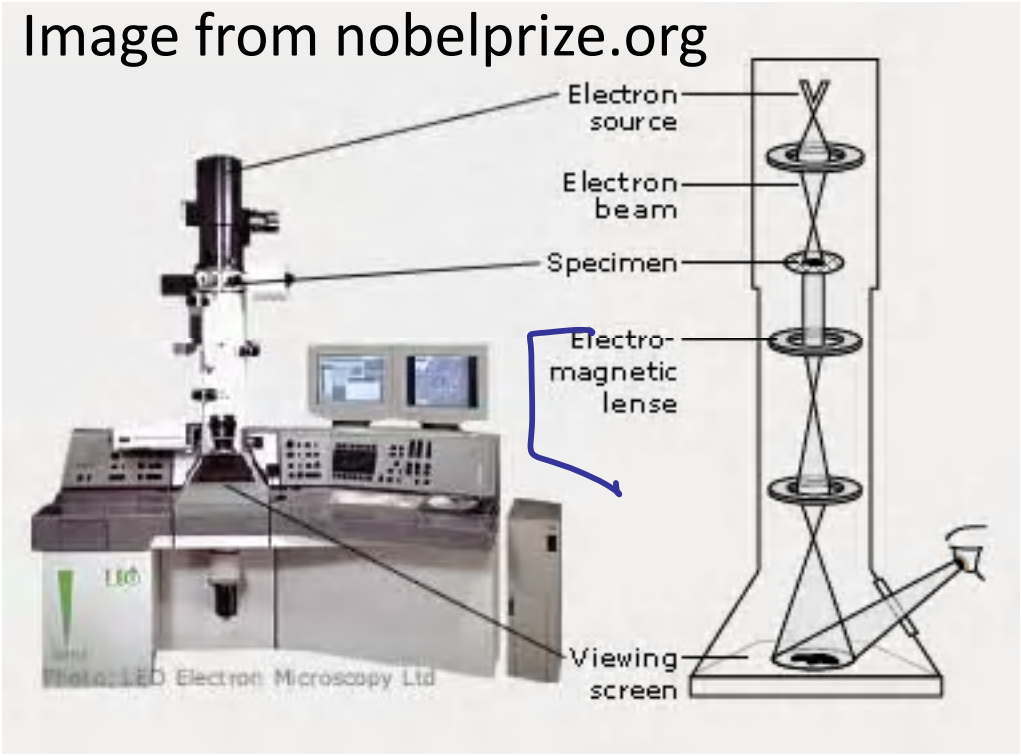


* don't dip tweezers into liquid

TEM

- Very high resolution – why? e⁻ has much lower λ than light
- EM lens to focus
- Sample preparation
  - very thin, under vacuum
  - can't image *in situ* bio.
- cryoTEM frozen, more in situ-like
- S(canning)TEM - today
  - scanning allows mapping
  - ⇒ ↑ efficiency, ↑ contrast

Image from nobelprize.org



- Unscattered e⁻ visualized according to sample density "bright field"

Today in Lab

- Three groups to TEM first
  - yellow, blue, purple
  - use *your* phage, with equal volume IrOx
  - TEM with Mark Allen, room 13-1012

- Two groups set up electrodeposition first
  - green, pink
  - use *stock* phage, 1:50 with IrOx

↳ high PFU

- Then switch off